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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/718,304	11/20/2003	Hwa-Sun Yoo	784-59 9786		
005 11	7590 01/23/2008	EXAMINER			
THE FARRELL LAW FIRM, P.C. 333 EARLE OVINGTON BOULEVARD SUITE 701 UNIONDALE, NY 11553			KANG, SUK JIN		
			ART UNIT	PAPER NUMBER	
ONIOND/IEE,	, 111 11333		2619		
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			MAIL DATE	DELIVERY MODE	
			01/23/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicatio	n No.	Applicant(s)				
Office Action Summary		10/718,30	4	YOO ET AL.				
		Examiner		Art Unit				
		Suk Jin Ka	ng	2619				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)[Responsive to communication(s) filed on	26 October 2007	7					
<i>,</i> —	This action is FINAL . 2b) ☐ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠	4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)🛛	Claim(s) <u>4 and 6-10</u> is/are allowed.							
6)⊠	Claim(s) <u>1 and 2</u> is/are rejected.							
•	☑ Claim(s) <u>3 and 5</u> is/are objected to.							
8)□	Claim(s) are subject to restriction a	and/or election re	equirement.					
Applicati	on Papers							
9)	The specification is objected to by the Exa	ıminer.						
10)	The drawing(s) filed on is/are: a) ☐] accepted or b)[\square objected to by the ${f E}$	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Information	t(s) Le of References Cited (PTO-892) Le of Draftsperson's Patent Drawing Review (PTO-94 Lation Disclosure Statement(s) (PTO/SB/08) Le of No(s)/Mail Date	18)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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DETAILED ACTION

Claim Objections

1. Claim 5 is objected to because of the following informalities: on lines 1-2 of claim 5, replace "A computer program device readable by a machine, tangibly embodying a program of instructions executable by the machine" with —A computer readable medium tangibly embodying a program of instructions executable by a computer—. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 3. Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Miyashita et al. (U.S. Patent # 6,304,611 B1).

Consider **claim 1**, Miyashita et al. discloses an uplink communication method in an orthogonal frequency division multiplexing access system, comprising: generating upper and lower edge sidelobe canceling signals (2, Symbol Edge Signal Generator, figure 9) in a transmitting terminal for an uplink (column 5 lines 28-35, column 7 lines 44-57); and inserting the upper and the lower edge sidelobe canceling signals into guard intervals (82, Guard Interval Adder, figure 9), respectively, adjacent to a subband allocated to a user (column 5 lines 36-47, column 7 lines 28-57, column 9 lines 33-39)

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and performing inverse fast Fourier transform (81, IFFT Unit, figure 9) on user transmission signals and the upper and the lower edge sidelobe canceling signals to be inserted into the guard intervals (column 2 lines 39-58, column 7 lines 12-26).

Consider **claim 2**, and as applied to claim 1, Miyashita et al. discloses the uplink communication method wherein the upper and the lower edge sidelobe canceling signals are transmitted over subcarriers, respectively, nearest to the subband among subcarriers included in the respective guard intervals (column 5 lines 36-47, column 9 lines 33-39).

Allowable Subject Matter

- 4. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 4 and 6-10 are allowed.

Response to Arguments

6. Applicant's arguments filed October 26, 2007 have been fully considered but they are not persuasive.

Consider claim 1, Applicant argues, on page 12 of the Remarks, that "The pulses P_E and P_S by the symbol edge generator 2 of Miyashita do not correspond to the upper and lower edge sidelobe canceling signals recited in the claims, and Miyashita nowhere

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provides any teaching or reasonable suggestion to modify the PE or Ps pulses to arrive at canceling signals in accordance with the present invention."

The Examiner respectfully disagrees with Applicant's argument because as recited in the above rejection, Miyashita suggests side lobes in each carrier can be sufficiently suppressed over the duration of the guard intervals by supplying pulses PE and P_S (column 9 lines 33-39). The P_E and P_S pulses are later modified in the Amplitude Controller 1 in Figure 9 (column 7 lines 27-43). Thus sidelobe canceling signals inserted into guard intervals is suggested by Miyashita.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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8. Any response to this Office Action should be **faxed to** (571) 273-8300 **or mailed to**:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

9. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Suk Jin Kang whose telephone number is (571) 270-1771. The examiner can normally be reached on Monday - Friday 8:00-5:00 EST.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Chau Nguyen can be reached on (571) 272-3126. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

Suk Jin Kang S.J.K./sjk

January 14, 2008

CHAU NGUYEN
SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600